



PHOTOCATALYST PRODUCING METHOD, PHOTOCATALYST

AND GAS PURIFIER

Inventors: Katsuyuki Nakano et al

Attorney Docket No. 4775-00006

DRY SILICA BEADS TO REMOVE MOISTURE

S1

IMPREGNATE LIQUID MIXTURE OF TIP AND
IPA INTO SILICA BEADS

S2

LEAVE SILICA BEADS SEPARATED FROM LIQUID
MIXTURE STANDING IN THE ATMOSPHERE TO
PROMOTE HYDROLYSIS OF TIP

S3

CALCINE SILICA BEADS TO OBTAIN
TITANIA/SILICA CATALYST

S4

IMPREGNATE AQUEOUS CHLOROPLATINIC ACID
SOLUTION INTO TITANIA/SILICA CATALYST

S5

DRY UNDER REDUCED PRESSURE TITANIA/SILICA
CATALYST SEPARATED FROM SOLUTION

S6

HEAT TITANIA/SILICA CATALYST IN ARGON
ATMOSPHERE, THEN HYDROGEN REDUCE IT
IN HYDROGEN ATMOSPHERE AT FIRST
TREATMENT TEMPERATURE

S7

PERFORM TEMPERATURE CONTROL OF
TITANIA/SILICA CATALYST IN ARGON
ATMOSPHERE TO SET TEMPERATURE
TO SECOND TREATMENT TEMPERATURE

S8

OXIDIZE TITANIA/SILICA CATALYST IN THE
ATMOSPHERE AT SECOND TREATMENT
TEMPERATURE

S9

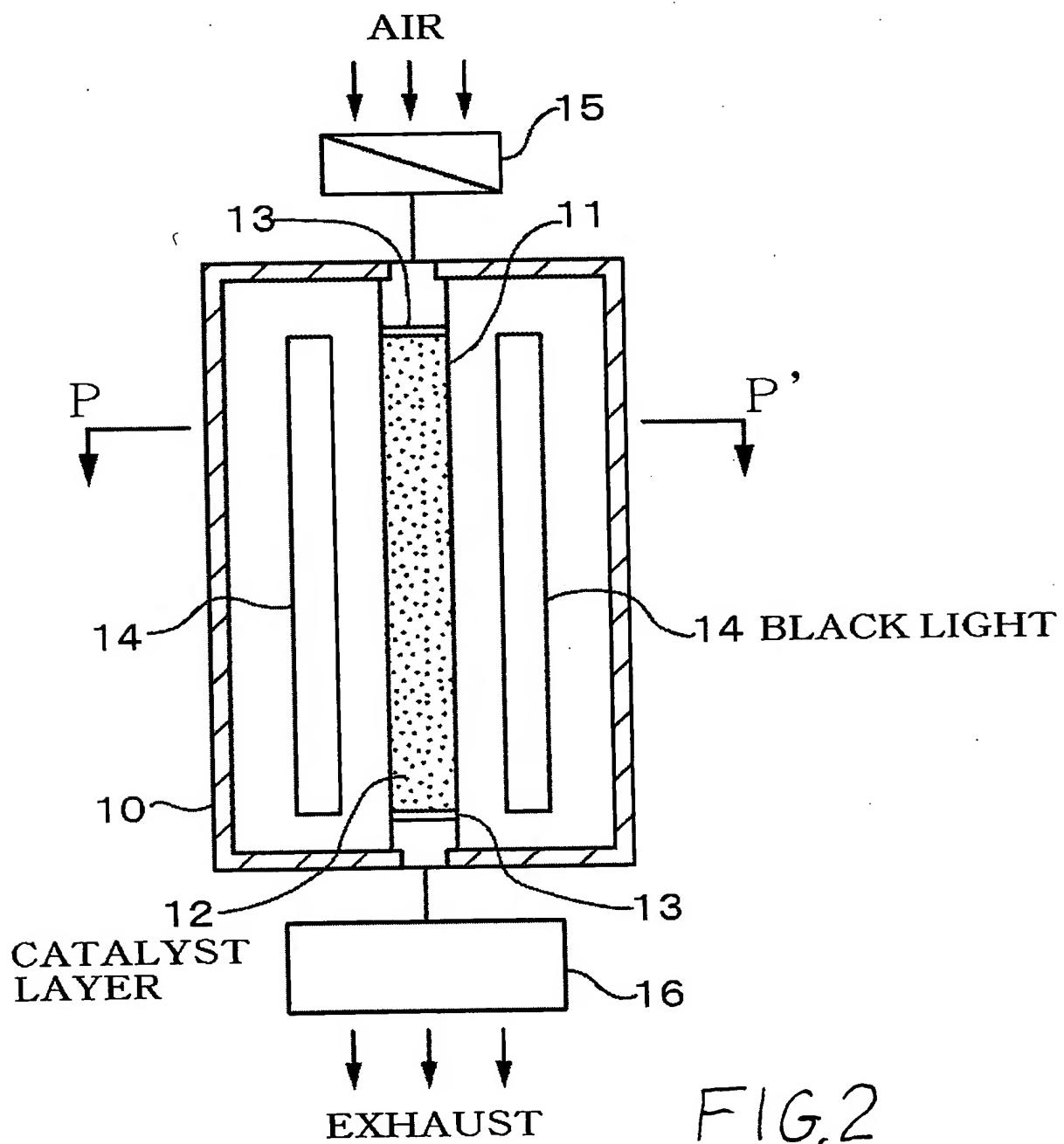
FIG. 1

PHOTOCATALYST PRODUCING METHOD, PHOTOCATALYST

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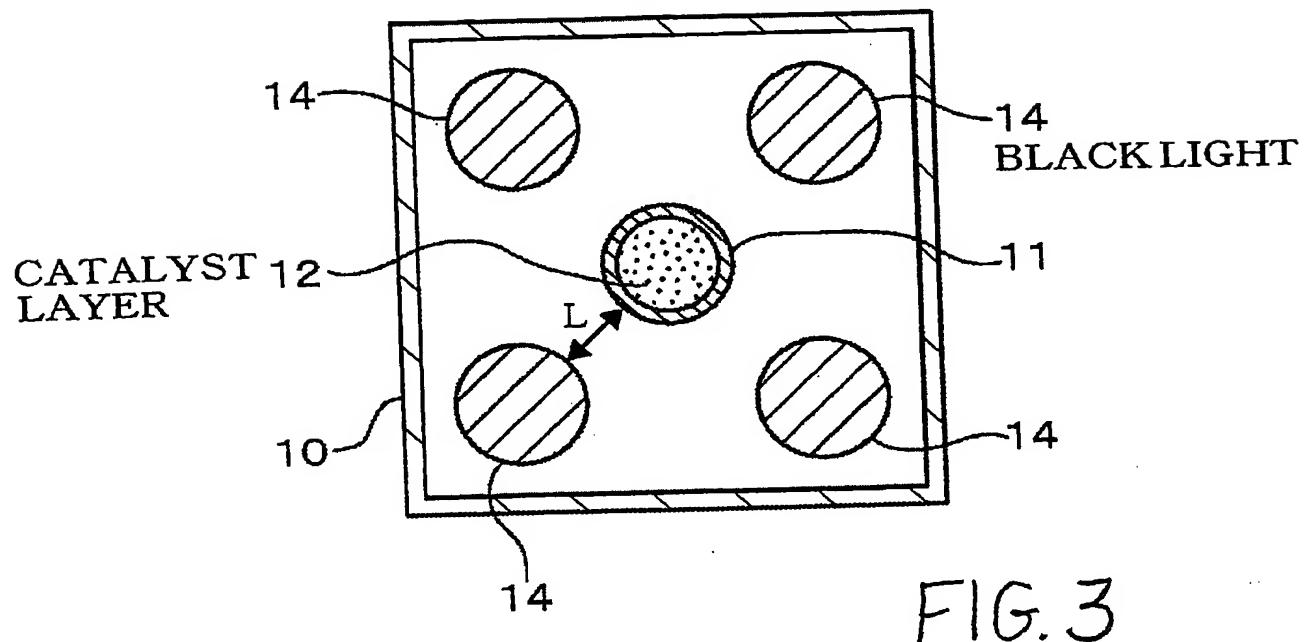


FIG. 3

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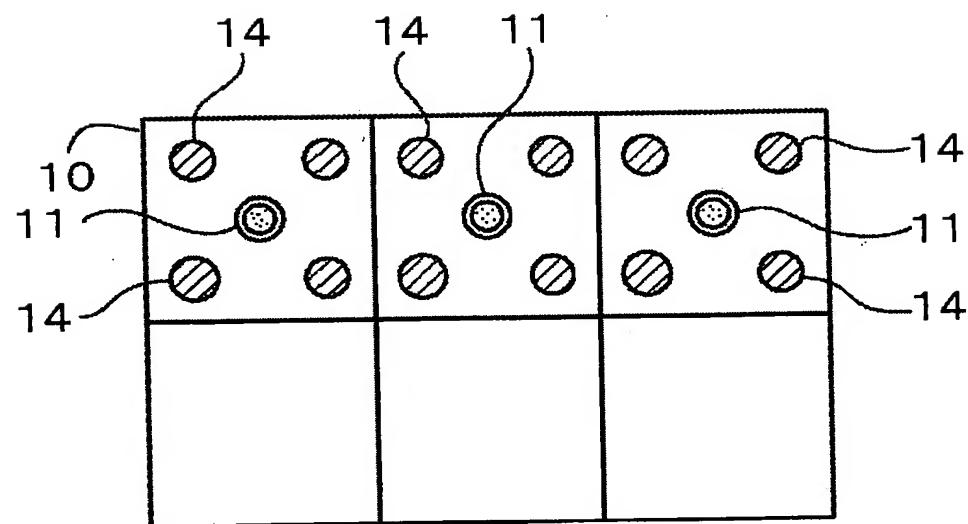


FIG. 4A

PHOTOCATALYST PRODUCING METHOD, PHOTOCATALYST

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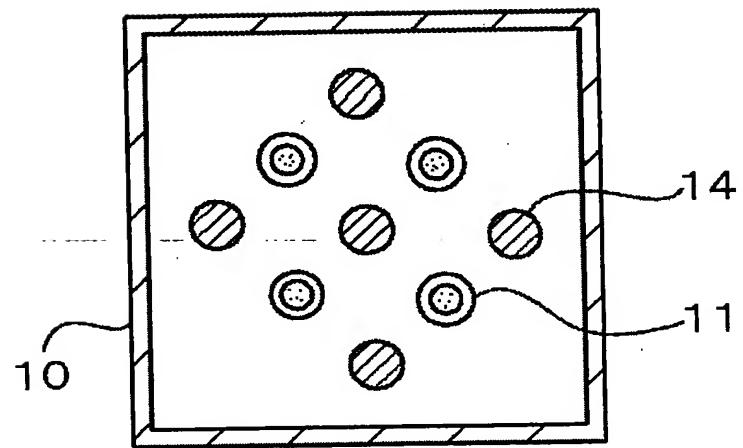


FIG. 4B

PHOTOCATALYST PRODUCING METHOD, PHOTOCATALYST
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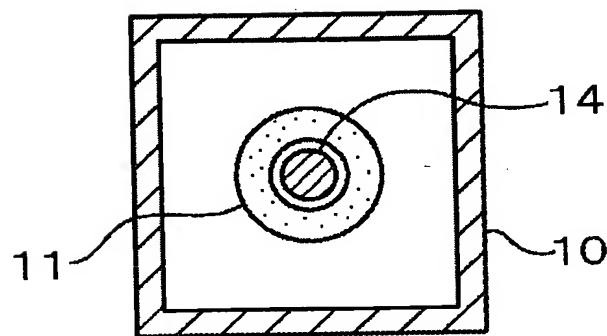


FIG. 4C

PHOTOCATALYST PRODUCING METHOD, PHOTOCATALYST

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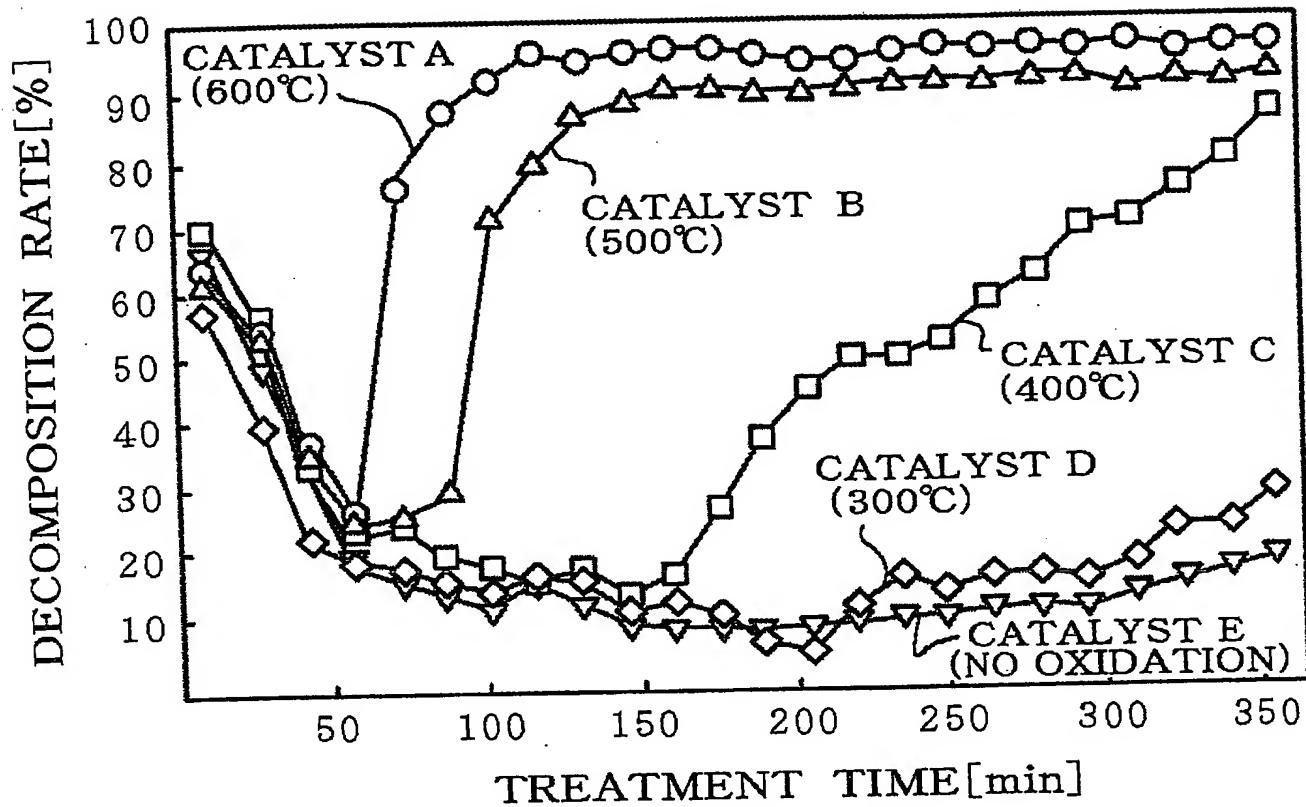


FIG. 5

PHOTOCATALYST PRODUCING METHOD, PHOTOCATALYST

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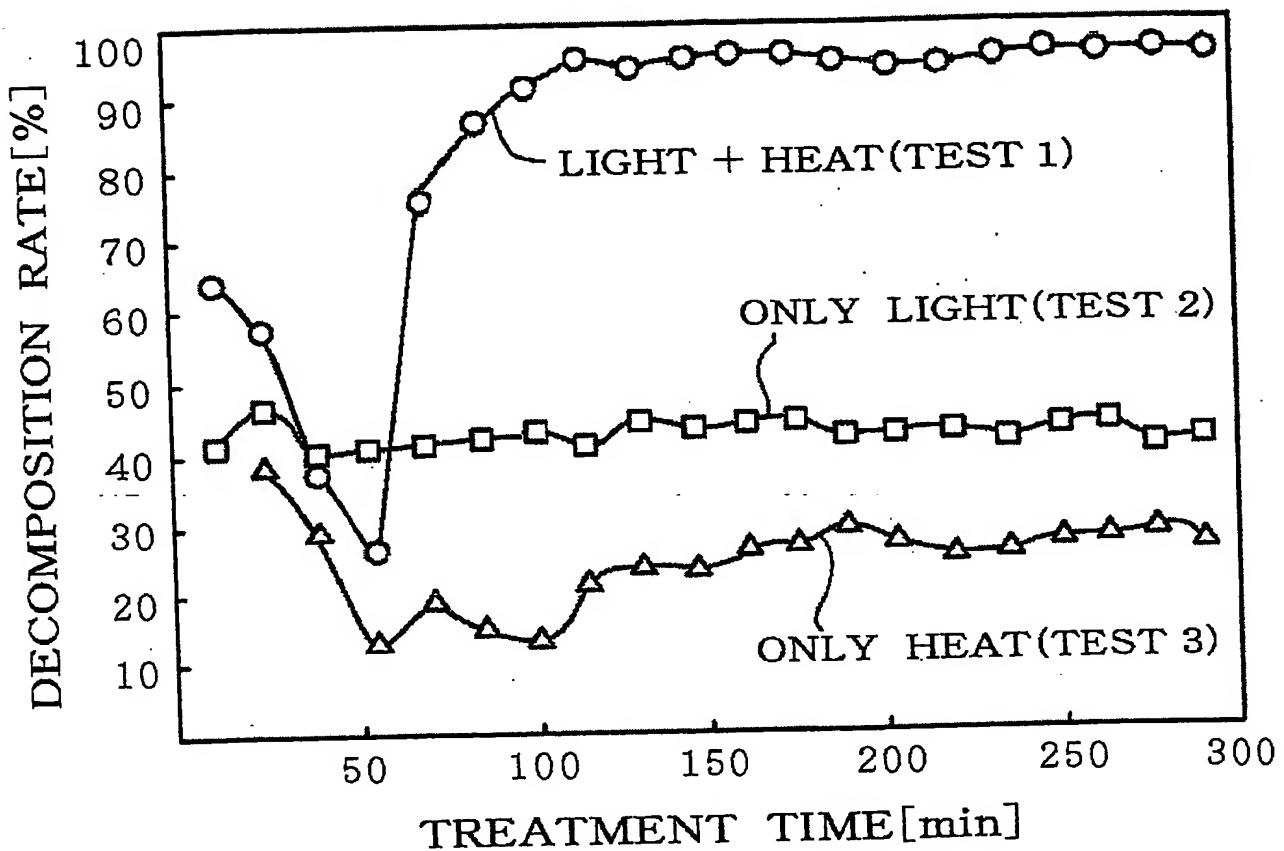


FIG. 6

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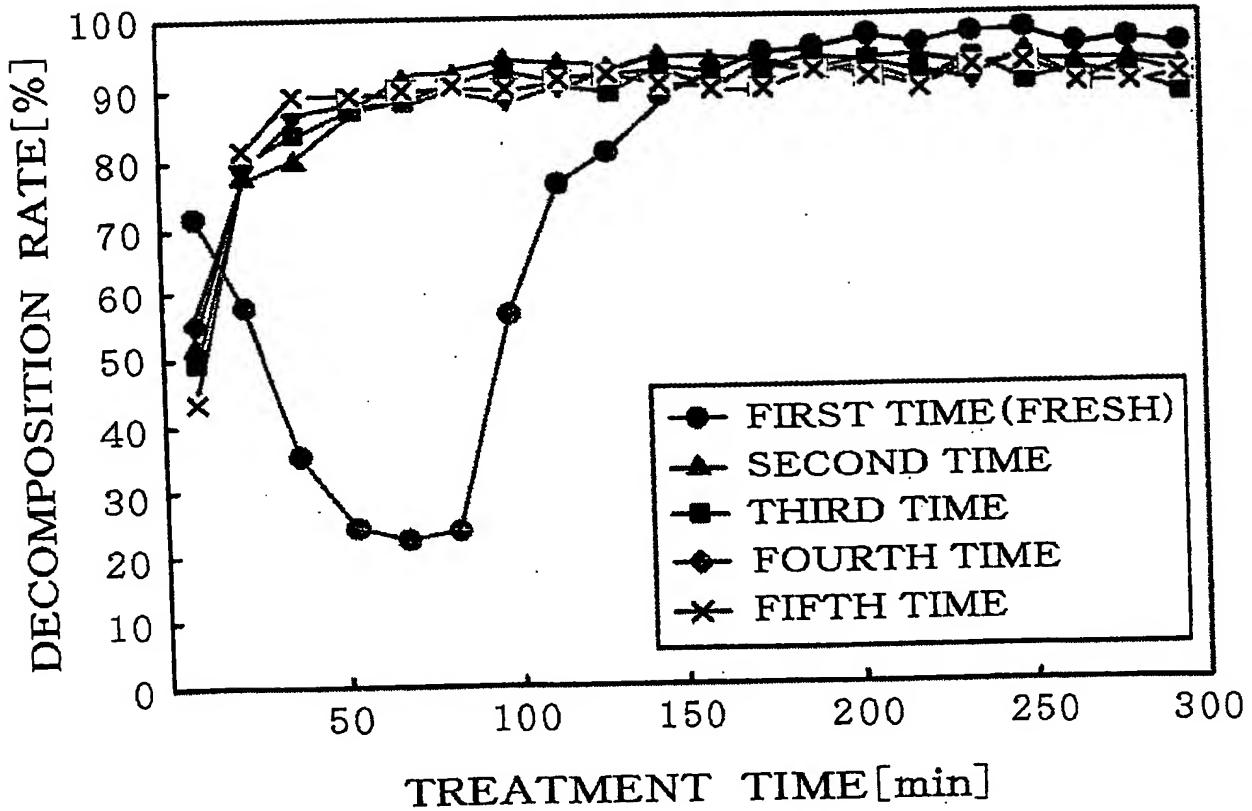


FIG. 7